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1 [PingTV: a case study in visual network monitoring](#)

[Alexander Gubin](#), [William Yurcik](#), [Larry Brumbaugh](#)

October 2001

VIS '01: Proceedings of the conference on Visualization '01

Publisher: IEEE Computer Society

 Full text available: (609.94 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 11, Downloads (Overall): 183, Citation Count: 0

PingTV generates a logical map of a network that is used as an overlay on a physical geographical image of the location from the user perspective (buildings, floors within buildings, etc.). PingTV is used at Illinois State University as a visualization ...

Keywords: active network measurement, network visualization, real-time television monitoring system

2 [Alternative representations and abstractions for moving sensors databases](#)

 [J. Eisenstein](#), [S. Ghandeharizadeh](#), [C. Shahabi](#), [G. Shanbhag](#), [R. Zimmermann](#)

October 2001

CIKM '01: Proceedings of the tenth international conference on Information and knowledge management

Publisher: ACM

 Full text available: (1.50 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 28, Downloads (Overall): 352, Citation Count: 0

Moving sensors refers to an emerging class of data intensive applications that impacts disciplines such as communication, health-care, scientific applications, etc. These applications consist of a fixed number of sensors that move and produce streams ...

3 [A visually grounded natural language interface for reference to spatial scenes](#)

 [Peter Gorniak](#), [Deb Roy](#)

 November 2003 **ICMI '03**: Proceedings of the 5th international conference on Multimodal interfaces

Publisher: ACM

 Full text available: (585.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 25, Downloads (Overall): 286, Citation Count: 1

Many user interfaces, from graphic design programs to navigation aids in cars, share a virtual space with the user. Such applications are often ideal candidates for speech interfaces that allow the user to refer to objects in the shared space. We present ...

Keywords: cognitive modelling, computational semantics, natural language understanding, vision based semantics

ADVANCED SEARCH

FEEDBACK

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4 [Geographic location tags on digital images](#)



[Kentaro Toyama](#), [Ron Logan](#), [Asta Roseway](#)

November **MULTIMEDIA '03**: Proceedings of the eleventh ACM international conference on Multimedia 2003

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (1.97 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 251, Downloads (Overall): 2148, Citation Count: 54

We describe an end-to-end system that capitalizes on geographic location tags for digital photographs. The World Wide Media eXchange (WWMX) database indexes large collections of image media by several pieces of metadata including timestamp, owner, and ...

Keywords: GIS, digital photography, geographic interfaces, image databases

5 [Application-specific compression for time delay estimation in sensor networks](#)



[Lavanya Vasudevan](#), [Antonio Ortega](#), [Urbashi Mitra](#)

November **SenSys '03**: Proceedings of the 1st international conference on Embedded networked sensor systems 2003

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (287.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 39, Downloads (Overall): 755, Citation Count: 2

Sensor networks have emerged as a fundamentally new tool for monitoring inaccessible environments. They are distinguished from traditional sensors by strict limitations on system bandwidth and sensor energy resources. These constraints motivate the use ...

Keywords: array processing, compression, hypothesis testing, mutual information, processing-aware, sensor networks, time delay estimation

6 [Temporal event clustering for digital photo collections](#)



[Matthew Cooper](#), [Jonathan Foote](#), [Andreas Gengenohn](#), [Lynn Wilcox](#)

November **MULTIMEDIA '03**: Proceedings of the eleventh ACM international conference on Multimedia 2003

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (200.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 33, Downloads (Overall): 750, Citation Count: 19

We present similarity-based methods to cluster digital photos by time and image content. The approach is general, unsupervised, and makes minimal assumptions regarding the structure or statistics of the photo collection. We present results for the algorithm ...

Keywords: digital photo organization, temporal media indexing and segmentation

7 ['Field' work](#)



[Andrew Johnson](#), [Thomas Moher](#), [Yong-Joo Cho](#), [Danny Edelson](#), [Eric Russell](#)

July 2003 **SIGGRAPH '03**: SIGGRAPH 2003 Educators Program

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (4.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 6, Downloads (Overall): 72, Citation Count: 0

Sixth grade students at Abraham Lincoln Elementary School explore a virtual field via an ImmersaDesk and collect data there using hand-helds computers. Back in the classroom they integrate their data, visualize it to see the patterns that emerge, and ...

8 [Constellation: a wide-range wireless motion-tracking system for augmented reality and virtual set applications](#)



[Eric Foxlin](#), [Michael Harrington](#), [George Pfeifer](#)

July 1998 **SIGGRAPH '98**: Proceedings of the 25th annual conference on Computer graphics and interactive techniques

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (388.67 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 151, Downloads (Overall): 983, Citation Count: 28

Keywords: accuracy, augmented reality, inertial ultrasonic, kalman filtering, latency, motion tracking, sensor fusion, virtual sets

9 [Linux makes Wi-Fi happen in New York city](#)

[Doc Searls](#)

September 2003

Linux Journal, Volume 2003 Issue 113

Publisher: Specialized Systems Consultants, Inc.

Full text available: [HTML](#) (38.40 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 11, Downloads (Overall): 483, Citation Count: 0

At parks, phone booths and cafes, hackers are making this city a cornucopia of wireless Net access.

10 [Discrete mobile centers](#)



[Jie Gao](#), [Leonidas Guibas](#), [John Hershberger](#), [Li Zhang](#), [An Zhu](#)

June 2001 **SCG '01**: Proceedings of the seventeenth annual symposium on Computational geometry

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (222.44 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 23, Downloads (Overall): 268, Citation Count: 25

We propose a new randomized algorithm for maintaining a set of clusters among moving nodes in the plane. Given a specified cluster radius, our algorithm selects and maintains a variable subset of the nodes as cluster centers. This subset has the ...

11 [The ambient wood journals: replaying the experience](#)



[Mark J. Weal](#), [Dimitris Michaelides](#), [Mark K. Thompson](#), [David C. DeRoure](#)

August 2003 **HYPERTEXT '03**: Proceedings of the fourteenth ACM conference on Hypertext and hypermedia

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (349.20 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 30, Downloads (Overall): 415, Citation Count: 9

The Ambient Wood project aims to facilitate a learning experience using an adaptive infrastructure in an outdoor environment. This involves sensor technology, virtual world orchestration, and a wide range of devices ranging from hand-held computers to ...


Keywords: adaptive infrastructure, consolidation, record and replay, storytelling

12 [Modelling and Adapting to Context](#)

[Daniela Petrelli](#), [Elena Not](#), [Massimo Zancanaro](#), [Carlo Strapparava](#), [Oliviero Stock](#)

January 2001 **Personal and Ubiquitous Computing** , Volume 5 Issue 1

Publisher: Springer-Verlag

Full text available:  [Pdf](#) (120.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 34, Downloads (Overall): 366, Citation Count: 12


One of the hardest points in context-aware applications is deciding what reactions a system has to a certain context. In this paper, we introduce an architecture used in two context-aware museum guides. We discuss how the context is modelled and we briefly ...

13 [Intelligent information dissemination services in hybrid satellite-wireless networks](#)

[Eddie C. Shek](#), [Son K. Dao](#), [Yongguang Zhang](#), [Darrel J. Van Buer](#), [Giovanni Giuffrida](#)

December 2000 **Mobile Networks and Applications** , Volume 5 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf](#) (527.68 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 11, Downloads (Overall): 440, Citation Count: 2

The need for rapid deployment and user mobility suggest the use of a hybrid satellite‐wireless network infrastructure for important situation awareness and emergency response applications. An Intelligent Information Dissemination Service &IIDS&Ipar; ...


14 [Topology control for wireless sensor networks](#)



[Jianping Pan](#), [Y. Thomas Hou](#), [Lin Cai](#), [Yi Shi](#), [Sherman X. Shen](#)

September 2003 **MobiCom '03: Proceedings of the 9th annual international conference on Mobile computing and networking**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (297.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 63, Downloads (12 Months): 583, Downloads (Overall): 6218, Citation Count: 41

We consider a two-tiered Wireless Sensor Network (WSN) consisting of sensor clusters deployed around strategic locations and base-stations (BSs) whose locations are relatively flexible. Within a sensor cluster, there are many small sensor nodes (SNs) ...


Keywords: network lifetime, topology control, wireless sensor networks

15 [A control and management network for wireless ATM systems](#)

[Stephen F. Bush](#), [Sunil Jagannath](#), [Ricardo Sanchez](#), [Joseph B. Evans](#), [Gary J. Minden](#), [K. Sam Shanmugan](#), [Victor S. Frost](#)

September 1997 **Wireless Networks** , Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf](#) (573.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 43, Downloads (Overall): 448, Citation Count: 4

This paper describes the design of a control and management network (orderwire) for a mobile wireless Asynchronous Transfer Mode (ATM) network. This mobile wireless ATM network is part of the Rapidly Deployable Radio Network (RDRN). The orderwire system ...

16 [Design and implementation of a framework for efficient and programmable sensor networks](#)



[Athanasios Boulas](#), [Chih-Chieh Han](#), [Mani B. Srivastava](#)

May 2003 **MobiSys '03: Proceedings of the 1st international conference on Mobile systems, applications and services**

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (303.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 113, Downloads (Overall): 706, Citation Count: 39

Wireless ad hoc sensor networks have emerged as one of the key growth areas for wireless networking and computing technologies. So far these networks/systems have been designed with static and custom architectures for specific tasks, thus providing inflexible ...

17 [Citywide: Supporting Interactive Digital Experiences Across Physical Space](#)

[Shahram Izadi](#), [Mike Fraser](#), [Steve Benford](#), [Martin Flinham](#), [Chris Greenhalgh](#), [Tom Rodden](#), [Holger Schnädelbach](#)

January 2002 **Personal and Ubiquitous Computing** , Volume 6 Issue 4

Publisher: Springer-Verlag

Full text available: Pdf (194.45 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 36, Downloads (Overall): 438, Citation Count: 2

The Citywide project is exploring ways in which technology can provide people with rich and engaging digital experiences as they move through physical space, including historical experiences, performances and games. This paper describes some initial ...

Keywords: Augmented reality, Heterogeneous devices, Mobile applications, Virtual environments

18 [Trajectory based forwarding and its applications](#)



[Dragos Niculescu](#), [Badri Nath](#)

September 2003 **MobiCom '03: Proceedings of the 9th annual international conference on Mobile computing and networking**

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (469.09 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 106, Downloads (Overall): 1230, Citation Count: 42

Trajectory based forwarding (TBF) is a novel method to forward packets in a dense ad hoc network that makes it possible to route a packet along a predefined curve. It is a hybrid between source based routing and Cartesian forwarding in that the trajectory ...

Keywords: ad hoc networks, broadcasting, multipath, positioning, routing, trajectory based forwarding

19 [A foundation for representing and querying moving objects](#)



[Ralf Hartmut Güting](#), [Michael H. Böhlen](#), [Martin Erwig](#), [Christian S. Jensen](#), [Nikos A. Lorentzos](#), [Markus Schneider](#), [Michalis Vazirgiannis](#)

March 2000 **Transactions on Database Systems (TODS)** , Volume 25 Issue 1

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (268.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 184, Downloads (Overall): 1363, Citation Count: 89

Spatio-temporal databases deal with geometries changing over time. The goal of our work is to provide a DBMS data model and query language capable of handling such time-dependent geometries, including those changing continuously that describe moving ...

Keywords: abstract data types, algebra, moving objects, moving point, moving region, spatio-temporal data types, spatio-temporal databases


20 [From remote media immersion to Distributed Immersive Performance](#)



[A. A. Sawchuk](#), [E. Chew](#), [R. Zimmermann](#), [C. Papadopoulos](#), [C. Kyriakakis](#)

November 2003 **ETP '03: Proceedings of the 2003 ACM SIGMM workshop on Experiential telepresence**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (378.71 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 81, Downloads (Overall): 557, Citation Count: 7

We present the architecture, technology and experimental applications of a real-time, multi-site, interactive and collaborative environment called Distributed Immersive Performance (DIP). The objective of DIP is to develop the technology for live, interactive ...




Keywords: information interfaces and presentation, music performance, real-time interaction, remote collaboration

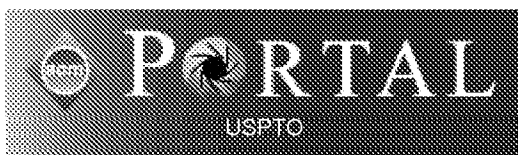
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21 [Modeling of seismic wave propagation at the scale of the Earth on a large Beowulf](#)

[Dimitri Komatitsch, Jeroen Tromp](#)

 November 2001 **Supercomputing '01: Proceedings of the 2001 ACM/IEEE conference on Supercomputing 2001** (CDROM)
Publisher: ACM

Full text available: Pdf (5.17 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 35, Downloads (Overall): 420, Citation Count: 0

We use a parallel spectral-element method to simulate the propagation of seismic waves generated by earthquakes in the entire 3-D Earth. The method is implemented using MPI on a large PC cluster (Beowulf) with 151 processors and 76 Gb of RAM. It is based ...

22 [Experience with an evolving overlay network testbed](#)

[David G. Andersen, Hari Balakrishnan, M. Frans Kaashoek, Robert Morris](#)

 July 2003 **SIGCOMM Computer Communication Review**, Volume 33 Issue 3
Publisher: ACM

Full text available: Pdf (115.26 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)
Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 18, Downloads (Overall): 452, Citation Count: 4

The MIT RON testbed consists of 36 Internet-connected nodes at 31 different sites. It has been in operation for two years. This paper presents an overview of the testbed, summarizes some of the research for which it has proved useful, and presents the ...

23 [Halo: a technique for visualizing off-screen objects](#)

[Patrick Baudisch, Ruth Rosenholtz](#)

 April 2003 **CHI '03: Proceedings of the SIGCHI conference on Human factors in computing systems 2003**
Publisher: ACM [Request Permissions](#)

Full text available: Pdf (1.21 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 235, Downloads (Overall): 1250, Citation Count: 55

As users pan and zoom, display content can disappear into off-screen space, particularly on small-screen devices. The clipping of locations, such as relevant places on a map, can make spatial cognition tasks harder. Halo is a visualization technique ...

Keywords: Halo, maps, navigation, peripheral awareness indicators, visualization

24 [Portable meeting recorder](#)

Dar-Shyang Lee, Berna Erol, Jamey Graham, Jonathan J. Hull, Norihiko Murata

December 2002 **MULTIMEDIA '02**: Proceedings of the tenth ACM international conference on Multimedia**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (824.52 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 44, Downloads (Overall): 373, Citation Count: 13

The design and implementation of a portable meeting recorder is presented. Composed of an omnidirectional video camera with four-channel audio capture, the system saves a view of all the activity in a meeting and the directions from which people spoke. ...

Keywords: MPEG-2 compressed domain analysis, appliance, audio processing, meeting recorder, omnidirectional video

25 [Sampling, synthesis, and input devices](#)

George W. Fitzmaurice, Ravin Balakrishnan, Gordon Kurtenbach

August 1999

Communications of the ACM, Volume 42 Issue 8**Publisher:** ACM [Request Permissions](#)Full text available: [html](#) (41.15 KB), [Pdf](#) (284.25 KB)Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 56, Downloads (Overall): 613, Citation Count: 1**26** [Lowering the barrier to wireless and mobile experimentation](#)

Brian White, Jay Lepreau, Shashi Guruprasad

January 2003 **SIGCOMM Computer Communication Review**, Volume 33 Issue 1**Publisher:** ACMFull text available: [Pdf](#) (204.03 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 22, Downloads (Overall): 410, Citation Count: 2

The success of *ns* highlights the importance of an infrastructure that enables efficient experimentation. Similarly, Netbed's automatic configuration and control of emulated and live network environments minimizes the effort spent configuring and ...

27 [System-level power optimization: techniques and tools](#)

Luca Benini, Giovanni de Micheli

April 2000

Transactions on Design Automation of Electronic Systems (TODAES), Volume 5 Issue 2**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (385.22 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 51, Downloads (12 Months): 561, Downloads (Overall): 4671, Citation Count: 79

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic systems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, ...

28 [Impala: a middleware system for managing autonomous, parallel sensor systems](#)

Ting Liu, Margaret Martonosi

June 2003

PPoPP '03: Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (684.33 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 126, Downloads (Overall): 1037, Citation Count: 37


Sensor networks are long-running computer systems with many sensing/compute nodes working to gather information about their environment, process and fuse that information, and in some cases, actuate control mechanisms in response. Like traditional parallel ...

Keywords: middleware system, sensor networks, software adaptation, software update

Also published in:


October 2003 **SIGPLAN Notices** Volume 38 Issue 10

29 [Design and evaluation of a wide-area event notification service](#)

 [Antonio Carzaniga, David S. Rosenblum, Alexander L. Wolf](#)

August 2001 **Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (1.08 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 325, Downloads (Overall): 1944, Citation Count: 197

The components of a loosely coupled system are typically designed to operate by generating and responding to asynchronous events. An event notification service is an application-independent infrastructure that supports the construction ...


Keywords: content-based addressing and routing, event notification, publish/subscribe

30 [Time as essence for photo browsing through personal digital libraries](#)

 [Adrian Graham, Hector Garcia-Molina, Andreas Paepcke, Terry Winograd](#)

July 2002 **JCDL '02: Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (3.39 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 154, Downloads (Overall): 1434, Citation Count: 54

We developed two photo browsers for collections with thousands of time-stamped digital images. Modern digital cameras record photo shoot times, and semantically related photos tend to occur in bursts. Our browsers exploit the timing information to structure ...

Keywords: ACDSee, burst identification, image browser, personal digital library, photo browser, summarization, time-based clustering, time-based navigation

31 [Localized algorithms in wireless ad-hoc networks: location discovery and sensor exposure](#)

 [Seapahn Mequerdichian, Sasa Slijepcevic, Vahag Karayan, Miodrag Potkonjak](#)

October 2001 **MobiHoc '01: Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing**


Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (229.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 49, Downloads (12 Months): 619, Downloads (Overall): 2718, Citation Count: 25

The development of practical, localization algorithms is probably the most needed and most challenging task in wireless ad-hoc sensor networks (WASNs). Localized algorithms are a special type of distributed algorithms where only a subset of nodes in ...

32 [The Techsat-21 autonomous space science agent](#)

 [Steve Chien, Rob Sherwood, Gregg Rabideau, Rebecca Castano, Ashley Davies, Michael Buri, Russell Knight, Tim Stough, Joe Roden, Paul Zetocha, Ross Wainwright, Pete Klupar, Jim Van Gaasbeek, Pat Cappelaere, Dean Oswald](#)

July 2002 **AAMAS '02: Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.32 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 43, Downloads (Overall): 399, Citation Count: 5

The Autonomous Sciencecraft Experiment (ASE) will fly onboard the Air Force TechSat-21 constellation of three spacecraft scheduled for launch in 2004. ASE uses onboard continuous planning, robust task and goal-based execution, model-based mode identification ...

Keywords: mode identification, planning and scheduling, robust execution, science agent, space exploration agent

33 [High-speed distributed data handling for on-line instrumentation systems](#)



[William E. Johnston](#), [William Greiman](#), [Gary Hoo](#), [Jason Lee](#), [Brian Tierney](#), [Craig Tull](#), [Douglas Olson](#)

November 1997 **Supercomputing '97: Proceedings of the 1997 ACM/IEEE conference on Supercomputing 1997** (CDROM)

Publisher: ACM

Full text available: [PDF](#) (438.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 27, Downloads (Overall): 207, Citation Count: 1

The advent (and promise) of shared, widely available, high-speed networks provides the potential for new approaches to the collection, organization, storage, and analysis of high-speed and high-volume data streams from high data-rate, on-line instruments. ...

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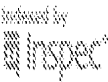
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1 [Managing photos with AT&T Shoebox \(demonstration session\)](#)
[Timothy J. Mills, David Pye, David Sinclair, Kenneth R. Wood](#)

 July **SIGIR '00**: Proceedings of the 23rd annual international ACM SIGIR conference on Research and 2000 development in information retrieval

Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (117.55 KB)

 Additional Information: [full citation](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 21, Downloads (Overall): 188, Citation Count: 1

2 [Pseudo-3D photo collage](#)
[Hiroya Tanaka, Masatoshi Arikawa, Ryosuke Shibasaki](#)

 July 2002 **SIGGRAPH '02**: SIGGRAPH 2002 conference abstracts and applications

Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (169.55 KB)

 Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 23, Downloads (Overall): 86, Citation Count: 2

Pseudo-3D photo collage is a new technique for creating extensive pseudo-3D scenes on the Web. This technique enables users to create, publish, navigate and share pseudo-3D scenes by easy operations. Our basic idea comes from an artistic representation ...

3 [MiAlbum - a system for home photo management using the semi-automatic image annotation approach](#)
[Liu Wenyin, Yanfeng Sun, Hongliang Zhang](#)

 October 2000 **MULTIMEDIA '00**: Proceedings of the eighth ACM international conference on Multimedia 2000

Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (488.83 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 43, Downloads (Overall): 406, Citation Count: 4

MiAlbum© (v1.0) is a system developed at Microsoft Research China for managing family photos with the help of a semi-automatic image annotation approach. It provides functionalities to import (from scanner, digital camera, disks, PC, CD, ...

4 [Temporal event clustering for digital photo collections](#)
[Matthew Cooper, Jonathan Foote, Andreas Girsensohn, Lynn Wilcox](#)

 November 2003 **MULTIMEDIA '03**: Proceedings of the eleventh ACM international conference on Multimedia 2003

Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (200.13 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 33, Downloads (Overall): 750, Citation Count: 19


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We present similarity-based methods to cluster digital photos by time and image content. The approach is general, unsupervised, and makes minimal assumptions regarding the structure or statistics of the photo collection. We present results for the algorithm ...

Keywords: digital photo organization, temporal media indexing and segmentation

5 [World-wide gallery for pseudo-3D photo collage](#)

 [Hiroya Tanaka](#), [Shohei Matsukawa](#), [Akira Wakita](#), [Kaoru Misaki](#), [Tom Saito](#), [Hiroki Ito](#)
July 2003 **SIGGRAPH '03**: SIGGRAPH 2003 Web Graphics

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (1.22 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)


Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 17, Downloads (Overall): 108, Citation Count: 0

"Pseudo-3D Photo Collage", one of new web3D techniques, is based on multiple photographs and *Spatial-Hyperlinks*. A user can design various patterns of *HyperPhoto-Networks*, for example, *linear*, *loop*, *tree*, *grid*, *rhizome* and so on. ...

6 [Real-time photo-realistic augmented reality for interior design](#)

 [Jon Cook](#), [Simon Gibson](#), [Toby Howard](#), [Roger Hubbard](#)
July 2003 **SIGGRAPH '03**: SIGGRAPH 2003 Sketches & Applications

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (2.63 MB)


Additional Information: [full citation](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 36, Downloads (Overall): 177, Citation Count: 1

7 [Interactive level-set tools for photo editing](#)

 [Thomas Howard](#), [Bryan Morse](#)
July 2002 **SIGGRAPH '02**: SIGGRAPH 2002 conference abstracts and applications

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (133.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)


Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 19, Downloads (Overall): 52, Citation Count: 0

This sketch presents a suite of interactive image-editing tools based on properties of and manipulation of image level sets. This suite includes level-set smoothing, level-set constrained sharpening, and level-set "nudging" (image distortion).

8 [Design of a photo interpretation automaton](#)

 [W. S. Holmes](#), [H. R. Leland](#), [G. E. Richmond](#)
December 1962 **AFI PS '62 (Fall)**: Proceedings of the December 4-6, 1962, fall joint computer conference


Publisher: ACM

Full text available:  Pdf (4.15 MB)


Additional Information: [full citation](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 6, Downloads (Overall): 6, Citation Count: 2

9 [Image-based modeling and photo editing](#)

 [Byong Mok Ch](#), [Max Chen](#), [Julie Dorsey](#), [Frédéric Durand](#)
August 2001 **SIGGRAPH '01**: Proceedings of the 28th annual conference on Computer graphics and interactive techniques

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (4.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 103, Downloads (Overall): 1278, Citation Count: 53


We present an image-based modeling and editing system that takes a single photo as input. We represent a scene as a layered collection of depth images, where each pixel encodes both color and depth. Starting from an input image, we employ a suite of ...

10 [Home photo indexing using learned visual keywords](#)

[Joo-Hwee Lim](#), [Jesse S. Jin](#)

May 2003 **VIP '02: Selected papers from the 2002 Pan-Sydney workshop on Visualisation - Volume 22**, Volume 22

Publisher: Australian Computer Society, Inc.

Full text available:  [Pdf](#) (312.55 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 13, Downloads (Overall): 45, Citation Count: 0

With rapid advances in sensor, storage, processor, and communication technologies, consumers can now afford to create, store, process, and share large digital photo collections. With more and more digital photos accumulated, consumers need effective ...

Keywords: image indexing, image retrieval

11 [Design patterns for pseudo-3D photo collage](#)





[Hiroya Tanaka](#), [Masatoshi Arikawa](#), [Ryosuke Shibasaki](#)

July 2003

SIGGRAPH '03: SIGGRAPH 2003 Web Graphics

Publisher: ACM

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Full text available:  [Pdf](#) (874.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 19, Downloads (Overall): 295, Citation Count: 0

"Pseudo-3D Photo Collage", one of new web3D techniques, is based on multiple photographs and *Spatial-Hyperlinks*. A user can design various patterns of *HyperPhoto-Networks*, for example, *linear*, *loop*, *tree*, *grid*, *rhizome* and so on. ...

12 [Modeling and clustering of photo capture streams](#)





[Ullas Gargi](#)

November 2003

MIR '03: Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval

Publisher: ACM

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Full text available:  [Pdf](#) (1.97 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 25, Downloads (Overall): 270, Citation Count: 2

We present results of statistical modeling of consumer photographic media capture behaviour based on timestamp metadata. Working with real data sets, we show that it is bursty and is not well described by a Poisson model. We show that it is in fact a ...

Keywords: clustering, consumer behavior, digital libraries, fractal processes, media capture, naming systems, photo management

13 [Face it - photos don't make a web site trustworthy](#)





[Jens Riegersberger](#), [M. Angela Sasse](#)

April 2002

CHI '02: CHI '02 extended abstracts on Human factors in computing systems

Publisher: ACM

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Full text available:  [Pdf](#) (206.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 64, Downloads (Overall): 469, Citation Count: 10

Use of staff photographs is frequently advocated as a means of increasing customer confidence in an e-shop. However, these claims are not conceptually or empirically grounded. In this paper we describe a qualitative study, which elicited customer reactions ...

Keywords: affective cues, e-CRM, e-commerce, social cues, trust

14 [PanoVR SDK—a software development kit for integrating photo-realistic panoramic images and 3-D graphical objects into virtual worlds](#)



[Cheng-Chin Chiang](#), [Alex Huang](#), [Tsing-Shin Wang](#), [Matthew Huang](#), [Yunn-Yen Chen](#), [Jun-Wei Hsieh](#), [Ju-Wei Chen](#), [Tse Cheng](#)

September 1997 **VRST '97: Proceedings of the ACM symposium on Virtual reality software and technology**

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (1.04 MB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 23, Downloads (Overall): 405, Citation Count: 5

15 [An electronic class photo album](#)



[Margaret M. Reek](#), [Kenneth A. Reek](#)

December 1996 **SI GCSE Bulletin** , Volume 28 Issue 4

Publisher: ACM

Full text available: Pdf (475.45 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 5, Downloads (Overall): 102, Citation Count: 0

This paper describes our experience developing and using an electronic class photo album for our introductory CS courses at Rochester Institute of Technology. Each course's album is arranged by lab and lecture sections, and includes a picture of each ...

16 [A photo-digital mass storage system](#)



[J. D. Kuehler](#), [H. R. Kerby](#)

November 1966 **AFIPS '66 (Fall)** : Proceedings of the November 7-10, 1966, fall joint computer conference

Publisher: ACM

Full text available: Pdf (741.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 21, Downloads (Overall): 23, Citation Count: 7

The photo-digital mass storage system does not impinge upon present day direct-access storage devices. Rather, it complements them and becomes another member in a hierarchy of files, each with its own specific capabilities and restrictions.

17 [A photo history of SIGCHI: evolution of design from personal to public](#)



[Ben Shneiderman](#), [Hyunmo Kang](#), [Bill Kules](#), [Catherine Plaisant](#), [Anne Rose](#), [Richesh Ruchekir](#)

May 2002 **interactions** , Volume 9 Issue 3

Publisher: ACM [Request Permissions](#)

Full text available: Html (25.47 KB), Pdf (1.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 33, Downloads (Overall): 500, Citation Count: 4

For 20 years I have been photographing personalities and events in the emerging discipline of human-computer interaction. Until now, only a few of these photos were published in newsletters or were shown to visitors who sought them out. Now this photo ...

18 [Managing digital memories with the FXPAL photo application](#)



[John Adcock](#), [Matthew Cooper](#), [John Doherty](#), [Jonathan Foote](#), [Andreas Giergensohn](#), [Lynn Wilcox](#)

November 2003 **MULTIMEDIA '03**: Proceedings of the eleventh ACM international conference on Multimedia

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (368.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 31, Downloads (Overall): 376, Citation Count: 0

The FXPAL Photo Application is designed to facilitate the organization of digital images from digital cameras and other sources through automated organization and intuitive user interfaces.

Keywords: automatic event detection, digital photo collections, user-centered design

19 [Creation of a photo-real CG human](#)



[Brian Goldberg](#)

July 2002 **SIGGRAPH '02: SIGGRAPH 2002 conference abstracts and applications**

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (102.62 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 14, Downloads (Overall): 101, Citation Count: 0

Our team was tasked with the project of creating a full-screen, completely believable, CG stunt double for a well-known motion picture star. Successful project completion required adapting and applying many years worth of computer graphics research in ...

20 [A knowledge-based system implementing image analysis activity in the context of photo-interpretation](#)



[J.-C. Engel](#), [P. Bouthemy](#)

June 1989 **IEA/ AI E '89: Proceedings of the 2nd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**, Volume 2

Publisher: ACM

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

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21 [Fortran photo archive](#)

[Jerry Wegener](#)
 August 2003

SI GPLAN Fortran Forum , Volume 22 Issue 2

Publisher: ACM

 Full text available: [Pdf](#) (77.36 KB)

 Additional Information: [full citation](#)
Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 5, Downloads (Overall): 115, Citation Count: 0

22 [Time as essence for photo browsing through personal digital libraries](#)

[Adrian Graham](#), [Hector Garcia-Molina](#), [Andreas Paepcke](#), [Terry Winograd](#)

 July 2002 **JCDL '02: Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**
Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (3.39 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 154, Downloads (Overall): 1434, Citation Count: 54

We developed two photo browsers for collections with thousands of time-stamped digital images. Modern digital cameras record photo shoot times, and semantically related photos tend to occur in bursts. Our browsers exploit the timing information to structure ...

Keywords: ACDSee, burst identification, image browser, personal digital library, photo browser, summarization, time-based clustering, time-based navigation

23 [Fixing photo contrast with the GIMP](#)

[Eric Jeschke](#)

April 2003

Linux Journal , Volume 2003 Issue 108

Publisher: Specialized Systems Consultants, Inc.

 Full text available: [Html](#) (16.41 KB)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 1, Downloads (Overall): 84, Citation Count: 0

If the sky is great while the ground is black, or the ground is right but the sky is washed out, use The GIMP to make the whole photo look properly exposed.

24 [MICRO-19 photos](#)

[Edward Armbruster](#)
 December 1986

SI GMI CRO Newsletter , Volume 17 Issue 3

Publisher: ACM

 Full text available: [Pdf](#) (751.55 KB)

 Additional Information: [full citation](#)
Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 6, Downloads (Overall): 19, Citation Count: 0

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